

CLAIMS

1. A dispersion comprising particles of metal oxide dispersed in a siloxane fluid and a dispersing agent which is a polysiloxane wherein (i) the polysiloxane comprises in the range from 0.1 to 3 carboxyl groups, and (ii) the ratio of non-carboxyl group containing monomer units to carboxyl group containing monomer units in the polysiloxane is in the range from 40 to 150:1.
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2. A dispersion according to claim 1 wherein the polysiloxane has a viscosity in the range from 0.2 to 10 Pa.s.
3. A dispersion according to either one of claims 1 and 2 wherein the polysiloxane
10 has a molecular weight (number average) in the range from 4,000 to 15,000.
4. A dispersion according to any one of the preceding claims wherein the dispersion comprises greater than 30%, more preferably greater than 40%, and particularly greater than 50% by weight of particles of metal oxide.
5. A dispersion according to any one of the preceding claims wherein the
15 polysiloxane comprises 0.8 to 2.5 carboxyl groups per molecule.
6. A dispersion according to any one of the preceding claims wherein the polysiloxane comprises in the range from 30 to 200 non-carboxyl group containing monomer units.
7. A dispersion according to any one of the preceding claims wherein the carboxyl
20 group is attached laterally, preferably only laterally, to the polysiloxane chain.
8. A dispersion according to any one of the preceding claims wherein the metal oxide particles are hydrophobic.
9. A dispersion according to any one of the preceding claims wherein the siloxane fluid dispersing medium is a cyclic oligomeric dialkylsiloxane, a linear dimethyl-siloxane oligomer and/or polymer, and/or phenyltris(trimethylsiloxy)silane.
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10. A method of preparing a dispersion of metal oxide which comprises milling with a particulate grinding medium particles of metal oxide in a siloxane fluid in the presence of a dispersing agent which is a polysiloxane wherein (i) the polysiloxane comprises in the range from 0.1 to 3 carboxyl groups, and (ii) the ratio of non-carboxyl group
30 containing monomer units to carboxyl group containing monomer units in the polysiloxane is in the range from 40 to 150:1.
11. A sunscreen composition comprising particles of metal oxide, a siloxane fluid, and a polysiloxane comprising (i) in the range from 0.1 to 3 carboxyl groups, and (ii) non-carboxyl group containing monomer units to carboxyl group containing monomer units at a ratio in the range from 40 to 150:1.
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12. The use of a dispersion comprising particles of metal oxide dispersed in a siloxane fluid and a dispersing agent which is a polysiloxane wherein (i) the polysiloxane comprises in the range from 0.1 to 3 carboxyl groups, and (ii) the ratio of non-carboxyl group containing monomer units to carboxyl group containing monomer

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units in the polysiloxane is in the range from 40 to 150:1, to form an end-use sunscreen composition.

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